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ABSTRACT:

PURPOSE: To decrease pseudo gap noises by providing an interlayer material consisting of Si compds. having $\geq 50\text{\AA}$; to $\leq 500\text{\AA}$; film thickness on the boundary formed between a soft magnetic ferrite and a magnetic material consisting of an amorphous alloy.

CONSTITUTION: The interlayer material 4 consisting of at least one kind of the Si compds. of $\geq 50\text{\AA}$; to $\leq 500\text{\AA}$; film thickness selected from an Si-O compd., Si-C compd., Si-N compd., and Si-O-N compd. is provided on the boundary formed between the soft magnetic ferrite 2 and the magnetic material 3 consisting of the amorphous alloy. The metal ions constituting the soft magnetic ferrite 2 and the metal ions constituting the amorphous alloy 3 are diffused only in the interlayer material 4 from the boundaries of the interlayer material 4 and the respective layers. The thin film 4 of the Si compds. prevents the counter diffusion between the amorphous alloy 3 contg. the elements having high affinity to oxygen and the ferrite 2 to suppress the generation of a magnetic deteriorating layer at the boundary between both. The pseudo gap noises are decreased in this way.

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